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1907/08

UP THE
UNIVERSITY OF MARYLAND

The A. & M. College Register

Motto: "Lifting as We Climb"

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Issued Monthly by

The State Agricultural and Mechanical College

For the Colored Race
GREENSBORO, NORTH CAROLINA



A young man who cannot spend time to examine
this calendar pays a high price for the time saved

CALENDAR NUMBER 1908-1909

PUBLISHED BY THE COLLEGE. MAY, 1908

North Carolina Agricultural College 1908-1909

ANNOUNCEMENTS.

1. MEDICAL FEE.—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine.
2. VACCINATION.—Each student will be required to be vaccinated on entrance unless he can show doctor's certificate proving that vaccination is unnecessary.
3. LODGING DEPOSITS.—On account of limited accommodations, students can secure room at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded provided application for its return is made before September 1, 1908.
4. FREE TUITION.—Each Senator and Representative can recommend county students for free tuition. Upon the endorsement of a county Representative or Senator, we will give a student his tuition free for one session. Free tuition does not mean free board and lodging. These two items cost \$6.00 per month.
5. SPECIAL EXAMINATIONS.—Entrance examination and examinations for the removal of conditions are held September 2nd to 7th. All students with conditions should avail themselves of the opportunity, as special examinations are *not held* during the session and no conditions will be removed except during the examination weeks.

Each student must pay on entering all entrance fees and expenses for his first month.

CALENDAR FROM JUNE 1, 1908, TO MAY 31, 1909

1908.

JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6				1	2	3	4							1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30	31					

SEPTEMBER							OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4						1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

1908-'09

DECEMBER							JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	T
			1	2	3	4							1		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28						
							31													

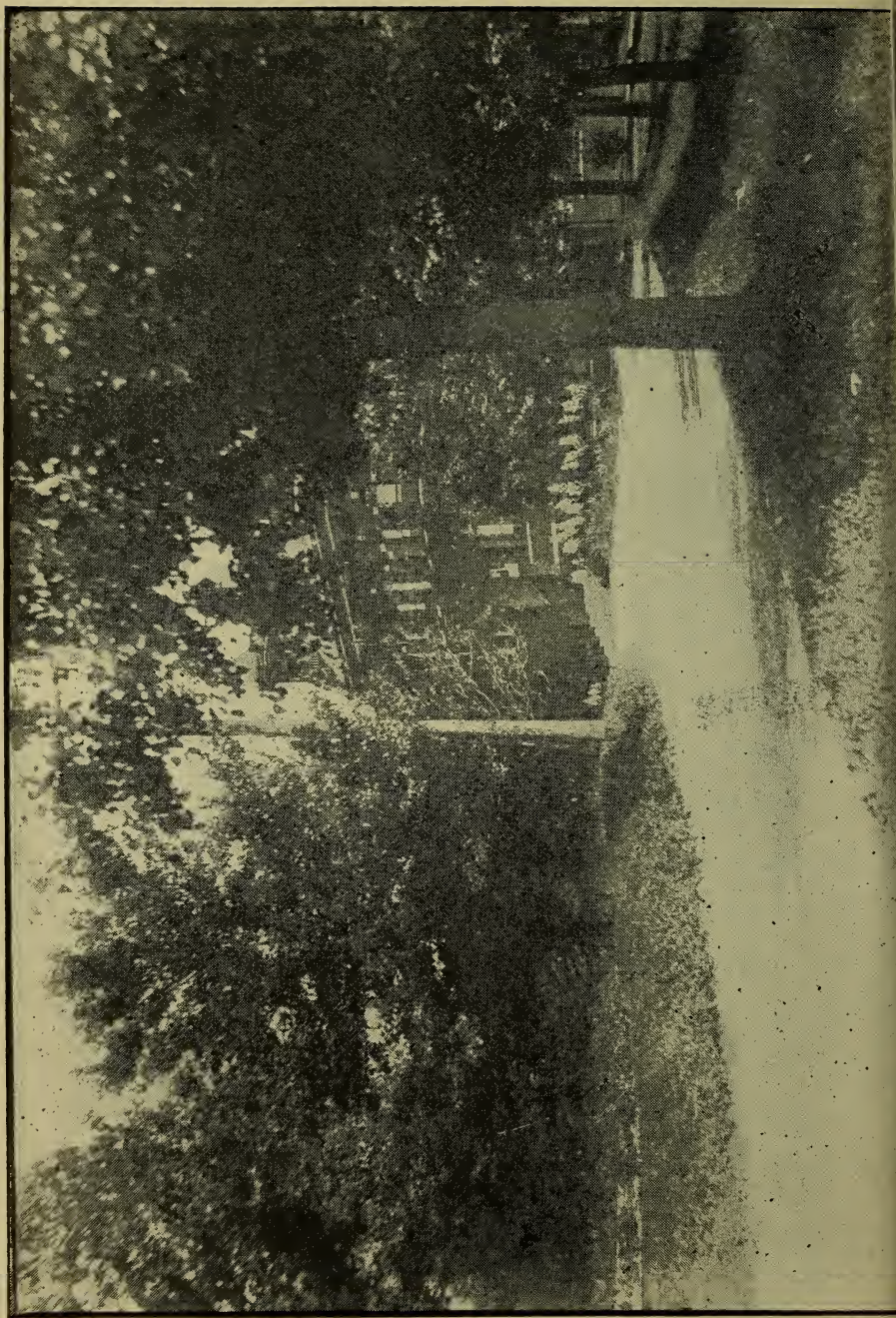
MARCH							APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

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FOURTEENTH ANNUAL CALENDAR

OF THE

STATE AGRICULTURAL

AND

MECHANICAL COLLEGE

FOR THE COLORED RACE

GREENSBORO, NORTH CAROLINA



1908-1909

STOUT BROTHERS, PRINTERS

GREENSBORO, N. C.

CALENDAR 1908-1909.

September 1-4—Entrance Examination and Examination for removal of conditions.

September 5—Registration Day.

September 7—Fall Term begins.

November 28—Fall Term ends.

December 1—Winter Term begins.

February 27—Winter Term ends.

March 1—Spring Term begins.

May 23—Baccalaureate Sermon.

May 27—Commencement.

June 1st to August 31—Vacation.

HOLIDAYS.

Thanksgiving Day.

Fall Term Holiday November 30.

Christmas Vacation—Dec. 23-Jan. 3rd inc.

Winter Term Holiday, February 28.

Washington's Birthday, February 22.

SPECIAL DAYS.

Arbor Day (day after Thanksgiving)—Special programme by Department of Agriculture and Chemistry.

Douglas' Birthday, and Lincoln's Birthday, February 12—Special programme for both on February 26th.

Morrill's Birthday, April 14—Agricultural and Mechanical Societies have special programme, April 16th.

BOARD OF TRUSTEES.

First Congressional District—W. R. Williams, Pitt county.

Second Congressional District—

Third Congressional District—W. J. Newbury, Duplin county.

Fourth Congressional District—W. D. Siler, Chatham county.

Fifth Congressional District—J. I. Foust, Guilford county.

Sixth Congressional District—C. Miller Hughes, Cumberland county.

Seventh Congressional District—C. C. Cranford, Randolph county.

Eighth Congressional District—W. L. Kluttz, Rowan county.

Ninth Congressional District—J. O. Alexander, Mecklenburg county.

Tenth Congressional District—M. W. Bell, Cherokee county.

MEMBERS AT LARGE.

Geo. W. Dunlap, Stanly County.

W. A. Darden, Pitt County.

J. B. Minor, Guilford County.

R. W. Morphis, Rockingham County.

M. C. S. Noble, Orange County.

C. G. Rose, Cumberland County.

W. A. Enloe, Jackson County.

OFFICERS OF TRUSTEE BOARD.

M. C. S. Noble, Chairman, Chapel Hill, N. C.

S. A. Kerr, Secretary, Greensboro, N. C.

FACULTY AND OFFICERS FOR 1908-1909,

FACULTY AND OFFICERS FOR 1908-'9.

James B. Dudley, President.
S. A. Kerr, Treasurer.

ACADEMIC DEPARTMENT.

James B. Dudley, A. M., LL.D., Head of Eng. Dept.
W. F. Debnam, A. B., Assistant.
S. P. Sebastian, Assistant.
Martin Goins, Secretary and Librarian.

TEACHERS' TRAINING DEPARTMENT.

J. D. Chavis, A. M., D. D., Director.

AGRICULTURAL DEPARTMENT.

John H. Bluford, B. S., A. M., Director.
W. F. Robinson, B. Agr., Assistant, Florist.

DAIRY DEPARTMENT.

MECHANICAL DEPARTMENT.

Charles W. Pierce, B. S. E. E., Director.
———— Assistant, Instructor in Manual Training.
W. N. Nelson, A. B., Assistant Instr. in Manual Training.
R. L. Page, Instructor in Brick-laying.
C. C. Amey, Instr. in Black-smithing.
Wm. Yates, Instructor in Tinning.

DEPARTMENT OF INDUSTRIES.

J. W. Landreth, Director.
Junius Rooks, Steward.

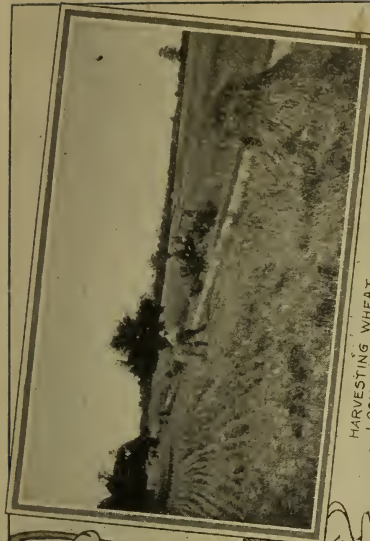
J. E. Dellinger, M. D., College Physician.



OATS TO THE RIGHT
WHEAT TO THE LEFT
FARM BUILDINGS
IN THE DISTANCE



GARTONS TARTER KING
SPRING OATS



HARVESTING WHEAT
LOOKING NORTH



WHEAT HARVEST
LOOKING SOUTH

The Agricultural and Mechanical College

For the Colored Race.

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of sixteen members, one from each Congressional District and six at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institution for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and

support of Colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The College also receives an appropriation from the State greater than the Federal appropriation, for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

The citizens of Greensboro donated fourteen acres of land and \$11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year. A large dormitory, which cost \$6,000, and a green-house have been added.

In the summer of 1895, the Mechanical Building, a large two-story brick structure, 38 by 119 feet, was erected at a cost of about \$9,000. This building, by the expenditure of about \$7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State, aided by the United States, to the colored youths to thoroughly equip themselves for the battle of life, to prepare to successfully work their way as "breadwinners" and to secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.



ADMISSION.

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language, must know addition, subtraction, multiplication and division of whole numbers, and have a knowledge of geography and history.

Students who have completed the eighth grade in the grammar schools will be admitted without examination.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

TUITION.

Tuition is one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

EXPENSES.

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

The charges made by the college for board, lodging and tuition must be settled in advance the first of each month. The college does not hold students on credit.

Positively no student will be allowed to enter any department of the College without paying in Cash the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month....	1.00
Board, per month	5.00

SPECIAL PAYMENTS.

Agricultural Fee, per term	50
Incidental Deposit	\$1.00
Laboratory Fee, per term	50
Workshop Fee, per term (see Mechanical Dept.)...	50
Dining Hall Fee, per year	1.00
Medical Fee, per year	1.00

These charges are payable strictly in advance.

Any student not paying the charges exacted by the College will be excluded from all classes until settlement is made.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, workshops and dining-hall when countersigned by heads of the Departments, the Steward, and President.

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$12.50 per year.

Free tuition or county students will pay \$1.00 per month less than the above.

Students who are absent for less than two weeks will not be allowed a reduction of charges.

Board, lodging, medical, tuition, and incidental deposit must be paid to the Treasurer before the rooms are assigned and tickets of admission to class-rooms, workshops and dining-hall are issued.

In addition to the above charges each student will be required to give at least three hours work per week.

SUPPLIES.

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$1.00 to cover any charges which may be made against him for damages done.

From the standpoint of neatness and economy in dress each student should supply himself with a regular uniform. This recommendation is compulsory for members of the Senior class.

RULES FOR GOVERNING CLASSIFICATION.

I. Regular students must take a minimum of fifteen hours of credit work per week at least three of which shall be industrial or manual training work.

II. Examinations for the removal of conditions will be held at no other time than the regular term examination periods.

III. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably. Students will not be promoted from one class to a higher

class who have more than *two conditions* in any preceding class.

IV. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

V. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will be required to take a lower class or sever his connection with the College and be allowed to return the following session.

GRADUATION.

Students graduating from the Trade School Courses are entitled to Certificates.

Students are entitled to a Diploma of the College upon the completion of the prescribed courses.

Candidates for graduation from the College, in addition to the work outlined in the catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible persons.

DEGREES.

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from Mechanical Course shall be entitled to the degree of Bachelor of Science.

Members of the Senior class must deposit the fee for Diploma thirty days before commencement day.

GENERAL INFORMATION.

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 to 7½ cents per hour, for which they can get credit each month at the time of their advanced payment.

Students receiving aid by labor which they may secure at the College are requested to observe: (a) That credit on school expenses and not money, will be allowed for student labor, except when such exceed his school expenses; (b) that credit cannot be transferred from one student to another.

The Department of Industries operated by the school affords opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

There are two literary societies, which greatly stimu-

late the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The faculty, by presence and advice, will seek to encourage these societies. Membership in one or the other of these societies will be compulsory. The Faculty will also encourage the organization of technical societies, in which special objects in connection with agriculture, mechanics and chemistry, will be considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety; as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

INDUSTRIAL MUSEUM.

An Industrial Museum has been started and already valuable collections of work done by students are to be seen. We have collections representing the work in carpentry, blacksmithing, and the various trades; also specimens from the Agricultural, English and Dairy Departments. Such articles for exhibit are collected once every month.

RULES AND REGULATIONS.

1. The signal for rising will be given at 5:45 a. m. Dressing and arranging rooms, 5:45 to 6 a. m. Prayer,

6:15. Breakfast, 7 to 7:30 a. m. Drill, 8 to 8:30. Chapel, 8:30 to 9 a. m.. Morning session, 9 to 1 p. m. Dinner from 1:10 to 2 p. m. Afternoon session, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper 6 to 6:30 p. m. Study, 7 to 9:30. Night school session, 7 to 9:30. Evening prayer, 9:30. Retiring signal, 9:45 p. m. Lights out, 10 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Untruthfulness or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all specific recreations, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect college duties, or who absent themselves from College grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their sons or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns, fire arms or deadly weapons of any kind whatsoever will be given 25 demerits.

8. The use of tobacco, spirits, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory building.

12. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands by any member of the Faculty shall be held guilty of contempt and punished accordingly.

13. No student will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated before entrance, or present a doctor's certificate showing that he has been vaccinated within two years.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishon-

esty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students are not permitted to walk on grass plots. Students will be demerited for this offence.

By order of

THE BOARD OF TRUSTEES.

ENGLISH COURSE.

PREPARATORY CLASS.

Fall Term:—Parts of Speech, Simple Sentences with Subject, Predicate, and Object, Dictation and Transcription. Spelling.

Winter Term:—Parsing, Inflections of Nouns and Pronouns, Verbs, Adjectives, Adverbs, Reproduction of Easy Narratives, Spelling.

Spring Term:—Parsing and Analysis, Turning outlines into continuous narratives, Punctuation. Stories from Hawthorne. Spelling.

FIRST YEAR CLASS.

Fall Term:—Advanced Grammar, Use of Capitals, the Paragraph, Conjunction, Origin and Derivation of Words, Punctuation, Stories in Verse to be turned into prose, Easy Essays, Spelling.

Winter Term:—Letters, Use of Capitals, Essays, Concord. Spelling,

Spring Terms:—Word Building, the Paragraph, Origin and Derivation of Words, Review of Grammar. Spelling.

SECOND YEAR CLASS.

Fall Term:—Rhetoric, Advanced Parsing and Analysis, Essays.

Winter Term:—Rhetoric, Advanced Parsing and Analysis, Essays.

Spring Term:—Rhetoric, Advanced Parsing and Analysis, Essays, Commercial Correspondence. (Dunbar, Washington Irving.)

THIRD YEAR CLASS.

Fall Term:—History of the English Language, Composition Work.

Winter Term:—Prefixes and Suffixes, Roots, Derivations, Composition.

Spring Term:—Prosody. Longfellow, Poe, Whittier, etc. Goldsmith. Paraphrasing.

FOURTH YEAR CLASS.

Fall Term:—Advanced Essay, Logic, Reading of any one play of Shakspeare.

Winter Term:—Essay, Edmund Burke on Reconciliation, Political Economy.

Spring Term:—Essays, Reading of Best American and Foreign Authors. A composition on your favorite author.

HISTORY.

PREPARATORY CLASS.

The leading facts, causes and sequences showing growth of our country and national history will be studied with a view to develop patriotism.

FIRST YEAR CLASS.

History of North Carolina and English History.

GEOGRAPHY.

Fall:—United States, British America, Mexico, Central America, West Indies and South America.

Winter:—Europe and Asia.

Spring:—Africa, Australia and Oceania with general review.

ARITHMETIC.

Fall:—Simple Rules and Problems; Decimal Fraction.

Winter:—Common Fractions, Compound Numbers, Equations.

Spring:—Metric System, Practical Measurements.

BOOKKEEPING AND BUSINESS LAWS.

SECOND YEAR.

Fall:—Double Entry—Study of Debits and Credits, Study of the various accounts, Capital, Cash, Merchandise, Personal, Profit and Loss, Journal, Ledger and Trial Balance Books, Balancing and Closing of Accounts. Commercial Correspondence—Study of Business Papers and Letters, Modes and Forms of Expressions, Instruction as to Filing Letters and Papers.

Winter:—Posting, Ruling, Balance Sheet, Pass Book, Writing Checks, Closing Ledger, Partnership, Exercises in Commercial Correspondence.

Spring:—Closing out of a Business. Resources and Liabilities, Commercial Law and Business Papers. Contracts—Construction, Arrangements, Essential Elements, Persons Competent to Make Contracts. Partnership—Advantages and Disadvantages, Rights, Duties. Corporations—Powers and Liabilities, Advantages, Formation, Laws Governing Them. Agency—How Created, Principal—His Duties, Rights and Liabilities; Agent—His Duties, Rights and Liabilities. Negotiable Papers—Notes, Bonds, Money Orders, Drafts, Endorsements, Protest, Duties of Holder. Legal Papers—Deeds, Deeds of Trust, Mortgages, General Principles Governing Same.

Text Book for Bookkeeping—The Twentieth Century Bookkeeping and Office Practice, J. W. Baker, Knoxville, Tenn. Practical Law. Ellis Publishing Co.



Class in General Chemistry.



Soil and Fodder Analysis.

CIVICS.

FOURTH YEAR.

Constitution of the United States and of North Carolina, General Duties and Responsibilities of Citizenship, etc.

DEPARTMENT OF AGRICULTURE AND CHEMISTRY.

J. H. BLUFORD, *Head of Department.*

W. F. ROBINSON, *Florist and Assistant.*

There are two courses in Agriculture—a four-year graded course leading to the degree of Bachelor of Agricultural Science and a two-year course leading to a certificate. The four-year course is designed to give the student a well-rounded education combined with technical and practical instruction. The two-year course is designed especially for the need of those students who have little time to spend in school and wish to get only such instruction as bears directly on their chosen vocation.

FOUR-YEAR COURSE IN AGRICULTURE LEADING TO THE DEGREE OF BACHELOR OF AGRICULTURAL SCIENCE.

FRESHMAN YEAR.

Subjects.	Periods Per Week.		
	Fall Winter Spring		
	Term.	Term.	Term.
Botany (Elementary)	5		
Zoology ..		5	
Botany ..			5
Elementary Horticulture	3		
Pomology ..		3	
Dairying			3

Subjects.	Periods Per Week.		
	Fall	Winter	Spring
	Term.	Term.	Term.
Physiology	2	2	2
Wood Shop	3		
Forging		3	3
Freehand Drawing	2		
Agricultural Drawing		2	2
Algebra			4
English	3	3	3
SOPHOMORE YEAR.			
Threnmatology	3		
Study of Breeds		3	
Stock Judging and Feeding			3
Inorganic Chemistry	3	3	3
Inorganic Chemistry (Lab.)	2	2	2
Entomology ..	3		
Plant Diseases		3	
Market Gardening			3
English	3	3	3
Surveying			4
JUNIOR YEAR.			
Physics ..	3	3	3
Physics (Lab.)	2	2	2
Farm Equipment	4		
Soils ..		4	
Farm Crops			4
Agricultural Bacteriology	2	2	2
Chemistry (Analytical)	3		
Organic Chemistry		3	
Agricultural Chemistry			3
Vet. Anatomy	4		
Vet. Medicine		4	
Geology			
Mechanical Technology	2	2	2
English	3	3	3
History	2	2	2

Subjects.	Periods Per Week.		
	Fall	Winter	Spring
	Term.	Term.	Term.
SENIOR YEAR.			
Political Economy	3	3	3
English	2	2	2
Soil Physics			
History of Agr.			3
Elect twelve periods of the following:			
Animal Husbandry (Horses)	2		
Animal Husbandry (Cattle)		2	
Animal Husbandry (Sheep)			2
Agonomy	3		
Special Crops		3	
Farm Machinery			3
Dairy Bacteriology	3		
Experimental Dairying		3	
Dairy Seminary			3
Market Gardening	3		
Forestry		3	
Landscape Gardening			3
Plant Diseases	2		
Entomology (Advanced)		2	
Economic Botany			2
Industrial Chemistry	2	2	2
Organic Chemistry	2	2	2
Analytical Chemistry (Lab.)	5		
Agricultural Chem. Analy. (Lab.) ...		5	5

TWO-YEAR COURSE IN AGRICULTURE LEADING TO A
CERTIFICATE.

FIRST YEAR.

Botany (Elementary)	3	3	
Botany (Systematic)			3
Elementary Horticulture			4

Subjects.	Periods Per Week.		
	Fall	Winter	Spring
	Term.	Term.	Term.
Pomology		4	
Dairying	4		
Physiology	3	3	
Zoology			2
Arithmetic	5	5	
Algebra			5
English	5	5	5
SECOND YEAR.			
Thremmatology	3		
Study of Breeds		3	
Stock Judging and Feeding			3
Inorganic Chemistry	3	3	3
Inorganic Chemistry (Lab.)	2	2	2
Farm Equipment	4		
Soils		4	
Farm Crops			4
Vet. Anatomy	4		
Vet. Medicine		4	
Plant Diseases			4
Entomology	3		
Farm Machinery		3	
Wood Work			3
English	5	5	5
Algebra	5	5	
Geometry			5

In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feedings, breeding, farm drainage, methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.



Milk Testing.



Class in Soil Physics.

All our class-room work finds its complement either in the field, the garden, the green-house, the orchard, the barn, the dairy, or the chemical laboratory.

EQUIPMENT.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making, such as United States Cream Separator, De Laval Separator, seven Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, Aerator, etc., thus enabling us to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.

A ninety-ton silo has also been erected for which silage is raised every year. A St. Albans Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

The farm is stocked with a good herd of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wutzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on, on the farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advance classes.

The green-house is maintained to aid the student in

the study of Botany and care of flowers. Instruction is also given in the management of a Green house on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recomposition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so complete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereoptican for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases. Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Leyden jars for induction and distribution of electricity, compound microscopes, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereoptican or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball-bearing balance, 50 cc. flasks with ground glass stoppers

drawn out to an open capillary tube for specific gravity work; brass tubes $12\frac{1}{2} \times 1\frac{7}{8}$ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes $16 \times 1\frac{7}{8}$ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes, $30 \times 1\frac{7}{8}$ inches inside measurement, for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

DESCRIPTION OF COURSES.

A.—INDUSTRIAL COURSES—PRACTICAL HORTICULTURE.

FALL TERM—MR. W. F. ROBINSON.

- I.—GREENHOUSE MANAGEMENT. Two hours. Required Course III. English. First year students.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms.

WINTER TERM—MR. W. F. ROBINSON.

- II.—PROPAGATION OF PLANTS. Two hours. Required Courses I. Industrial and III. English. Given alternately with Course III.

Practice is given in making cuttings, in potting, rooting, grafting, budding, etc. The student is also taught how to prepare various fungicides and insecticides, how and when to apply them.

SPRING TERM—MR. W. F. ROBINSON.

- III.—MARKET GARDENING. Three hours. Required Courses I. Industrial and III. English.

Practice is given in transplanting plants from the greenhouse or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale.

WINTER TERM—MR. P. E. ROBINSON.

- II.—MILK AND CREAM TESTING. Four hours. Required Course III. English.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in

the herd. He also becomes expert in testing cream for acidity according to, at least, two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk.

FALL TERM.

III.—BUTTER MAKING. Four hours. Required Courses II. Industrial and III. English.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc.

SPRING TERM.

IV.—MANAGEMENT OF DAIRY. Three hours. Required Courses III. Industrial and III. English, I. and II. B. C.

The student is expected to go into the dairy and take charge of the work under the supervision of the instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making.

B.—COURSES IN AGRICULTURE.

FALL TERM—PROF. BLUFORD.

I.—ELEMENTARY PRINCIPLE OF AGRICULTURE. Three hours. Open to all. Daily.

This term's work is designed to give the student a bird's-eye view of the whole field of agriculture in an elementary way. It will be freely illustrated by experiments. Text: Elementary Agriculture, Burkett, Stevens and Hill.

FALL TERM—MR. W. F. ROBINSON.

II.—PHYSIOLOGY. Six hours.

In addition to recitation work, the student is required to cut up one or more animals and study the various

organs in detail. Text: Hutchinson's Physiology and Hygiene.

SPRING TERM—PROF. BLUFORD.

III.—PHYSICAL GEOGRAPHY. Six hours. Open to all.

The course is illustrated by means of lantern slides and experiments. Text: Tarr's Physical Geography.

FALL TERM.

IV.—BREEDING. Six hours. Required Courses III. English and II. Agriculture.

Such subjects as atavism, variation, selection, heredity line breeding in and inbreeding are discussed. Collateral reading required. Text: Breeding.—*Shaw*.

FALL TERM.

VII.—ENTOMOLOGY. Six hours. Required Courses II. Horticulture and VI. English.

The subject is taught by means of lectures and the student is required to read upon topics assigned him by the instructor. The most common insects and insectitides are studied.

SPRING TERM—MR. W. F. ROBINSON.

V.—BACTERIOLOGY. Six hours. Required Courses II. Horticulture and Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work.

SPRING TERM—MR. W. F. ROBINSON.

VII.—FORAGE. Three hours. Required Course VI. English.

Lectures are given on the adaptability of the various crops that can be successfully and profitably grown in North Carolina to special soils, methods and seeding; preparation of seed bed and pasturing are also discussed. Collateral reading required.

SPRING TERM—PROF. BLUFORD.

IX.—PLANT DISEASES. Three hours. Required Course VII. Agriculture.



Stock Judging.



Studying Heat and Rate of Percolation of Water Through Soil.

Lectures and laboratory work. Common diseases, such as the cereal pests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope.

WINTER TERM—PROF. BLUFORD.

X.—FEEDING. Five hours. Required Courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food value of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding rations for the various farm animals are carefully considered. Collateral reading required. Text: Feeding of Animals.—*Jordan*.

FALL TERM.

XI.—VETERINARY SCIENCE. Four hours. Required Course XI. Agriculture.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text: Veterinary Elements.—*Hopkins*.

SPRING TERM—PROF. BLUFORD.

XII.—METEOROLOGY. Two credits. Required Course XII. Agriculture.

Movements of the atmosphere, character of wind, cyclones, tornadoes, thunderstorms, and weather forecasting are discussed.

C.—COURSES IN PHYSICS.

J. H. BLUFORD, *Instructor*.

I.—Three hours. Course III. Mathematics required.

The work of the first term consists of five lectures and recitations per week, the subject covered being Mechanics,

Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work.

II.—HEAT, MAGNETISM AND ELECTRICITY. Three hours.

Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic cells, their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of electrician.

III.—SOUND AND LIGHT. Three hours. Course II. desired, V. Mathematics.

This is a continuation of Courses I. and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

IV.—AGRICULTURAL PHYSICS. Five credits. Required Courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: *Agricultural Physics.—King.*

V.—PHYSICAL LABORATORY WORK. Three hours. Courses I. II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

VI.—AGRICULTURAL PHYSICS LABORATORY WORK. Two hours. Courses I. II. and III. required.

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work.

D.—COURSES IN HORTICULTURE.

SPRING TERM—PROF. BLUFORD AND MR. W. F. ROBINSON.

I.—BOTANY. Five credits. Desired Course I. Horticulture.

Such subjects as how the plant takes up food from the soil and the atmosphere; the effect of sunlight, air and moisture on plants are noted, diseases of plants and remedies for same are discussed in an elementary way. Given in connection with Course I. Agriculture. Text: Elementary Botany.—*Bailey*.

WINTER TERM—MR. W. F. ROBINSON.

III.—PROPAGATION OF PLANTS. Three credits.

Method of propagating plants by cutting, stolons, suckers, layering seed, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Goff*.

WINTER TERM—MR. W. F. ROBINSON.

IV.—SMALL FRUIT CULTURE. Two credits. Required Courses III. Horticulture and III. English.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the preparation of soil for same.

SPRING TERM—MR. W. F. ROBINSON.

V.—MARKET GARDENING. Three credits. Required Course IV. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, spe-

cial fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey*.

SPRING TERM—MR. W. F. ROBINSON.

VI.—POMOLOGY. Two credits. Required Courses IV. Horticulture and VI. English.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit are discussed. Text: Fruit Growing.—*Bailey*.

WINTER TERM—MR. W. F. ROBINSON.

VIII.—LANDSCAPE GARDENING. Two credits. Required Course VI. Horticulture.

Principles of embellishing landscapes, planting and management of woodlands, management of forests are discussed. Text: Landscape Gardening.—*Maynard*.

E.—COURSES IN CHEMISTRY.

WINTER TERM—PROF. BLUFORD.

I.—GENERAL CHEMISTRY. Three credits. Required Course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture rooms, which bear directly on and pave the way for Agricultural Chemistry.

SPRING TERM—PROF. BLUFORD.

II.—GENERAL CHEMISTRY. Three credits. Required Course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes.

FALL TERM—PROF. BLUFORD.

III.—QUALITATIVE ANALYSIS. Three credits. Required Course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the elements which enter into the composition of plant and animal life.

WINTER TERM—PROF. BLUFORD.

IV.—QUALITATIVE ANALYSIS. Two credits. Required Course III. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Appleton's Qualitative Analysis.

SPRING TERM—PROF. BLUFORD.

V.—AGRICULTURAL CHEMISTRY. Two credits. Required Course IV. Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed.

FALL TERM—PROF. BLUFORD.

VI.—QUANTITATIVE ANALYSIS.. Five credits. Required Course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of various agricultural products.

SPRING TERM—PROF. BLUFORD.

VII.—ANIMAL TOXICOLOGY. Two credits. Required Courses I. II. III. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc.

DEPARTMENT OF MECHANICS.

Chas. W. Pierce, *Head of Department.*

————— *Assistant and Instructor.*

W. N. Nelson, *Instr. in Carpentry.*

Wm. Yates, *Instr. in Tinsmithing.*

Chas. C. Amey, *Instr. in Blacksmithing.*

R. L. Page, *Instr. in Masonry.*

From the beginning of the first year the students' time is spent in the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories of the vicinity and the practical application of lectures pointed out.

The first two years in this department may be strictly a trade school. The first and second year students may, therefore, select the special line they wish to pursue and will be required to continue in that special work during the two years. After that time, those wishing to graduate from the institution, will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

Students who have not decided upon a trade, but who expect to take the full course, will pass from one shop to another spending a term in each for the first two years and the remaining two years will be spent in such special work as they may select.

EQUIPMENT.

Building—Two-story brick structure, with basement. On first floor are: Joinery, wood-turning shop, tin shop, machine shop, and model room; in basement are: Blacksmith shop, brick-masonry shop, wood-working shop and engine room, etc.

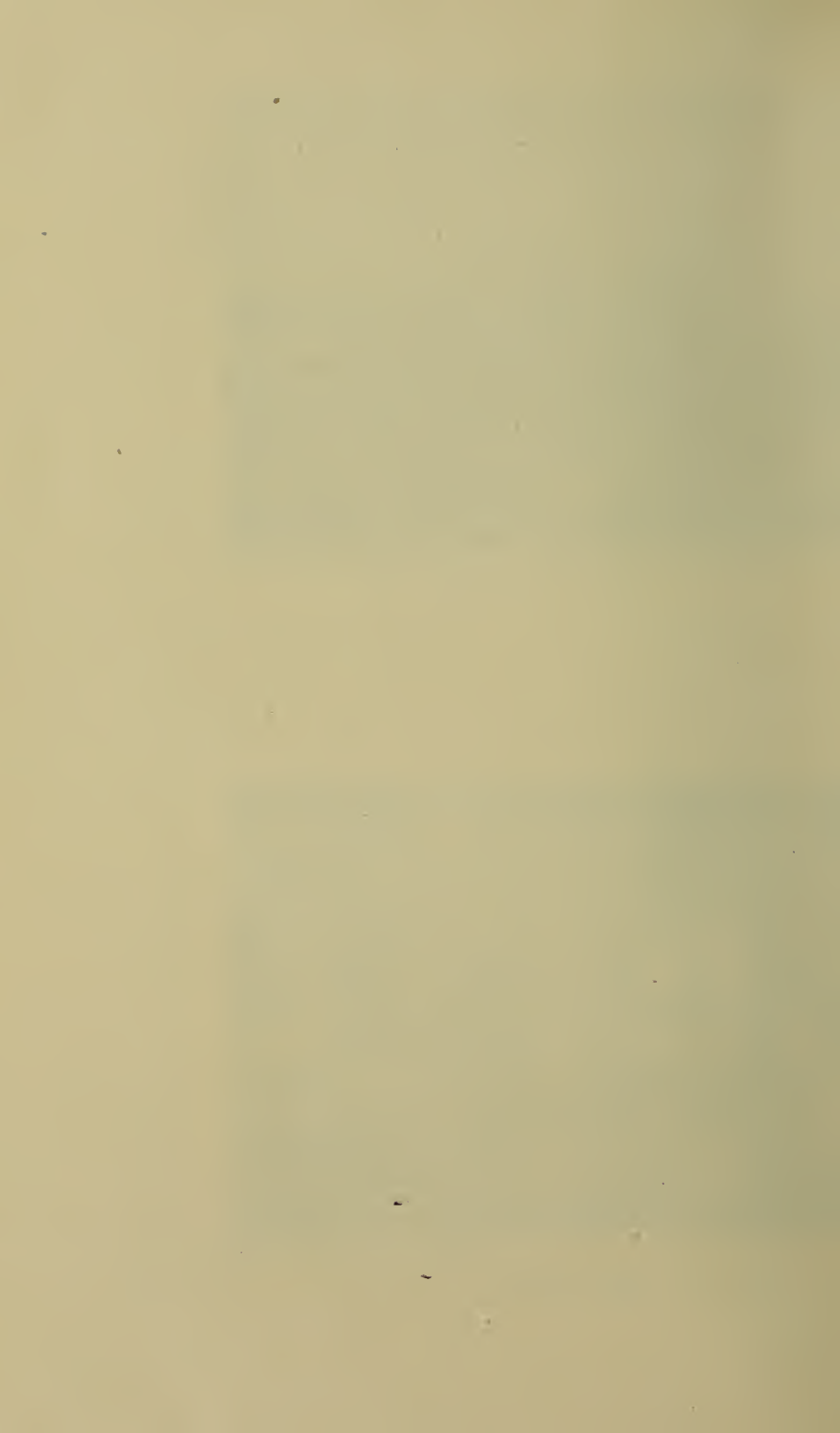
The Reading Room is provided with Books of Reference, and Technical Journals. Equipment in Drawing consists of tables, drawing board and T squares. Students



Mechanical Building.



Wood Turning.



will provide themselves with instruments. These can be purchased at very low rates from the department. Paper, pencil, ink and set of drawing tools may be rented for 75c. per term, payable in advance.

A dynamo has been installed and is used for experimental purposes and for lighting the shops. A Central Heating Plant has recently been put in the Mechanical Building. This furnishes opportunity to study the operations of the most improved steam heating system. Instruction in the following trades has been provided:

Architecture, Blacksmithing and General Repairing, Finsmithing, Wood-turning, Bricklaying and Plastering.

SUBJECTS OF INSTRUCTION.

I.—FREEHAND DRAWING.

The course in Freehand Drawing is thoroughly practical and aims to cultivate the sense of proportion, to teach the student to read drawings of the shops and to give the student facility in sketching. The drawing is largely from blocks, machine parts, and simple objects in line, light and shade.

Throughout the Freshman year, two-hour periods twice per week.

II.—MECHANICAL DRAWING.

The first term of the course is intended to give the students a knowledge of the use of instruments. In the second term the student is given such geometrical constructions and principles of projections as are necessary in machine drawing. Practice is also given in inking, shading, tracing and letter. Throughout the Sophomore year four hours per week.

III.—MACHINE DRAWING.

The student prepares for machine design by familiarizing himself with the proportions and the arrangement of various machines and their parts. The student begins with the work of dimensioning of elementary machine

parts from sketches in magazines, text books and of machines of the shops. This leads gradually to the making of working drawings of machines. Through the Fall and Winter terms, two-hour periods twice per week for the Engineering and Trade courses and one two-hour period for the Engineering course during the Spring term of the Junior year.

IV.—MACHINE DRAWING AND DESIGN.

At first the student is taught the design of tools and machines by having him consult freely the trade catalogues, and the working drawings of manufacturing concerns. One two-hour period through the first term and two two-hour periods through the second term of the Senior year. In addition to the machine drawing the students are given a brief outline of the various principles of mechanics. The necessary theory for proportioning screws, bolts, keys, cutters, shafting, couplings, hangers, belts and rope drives, friction and tooth gearing and engine parts are given.

V.—PERSPECTIVE DRAWING.

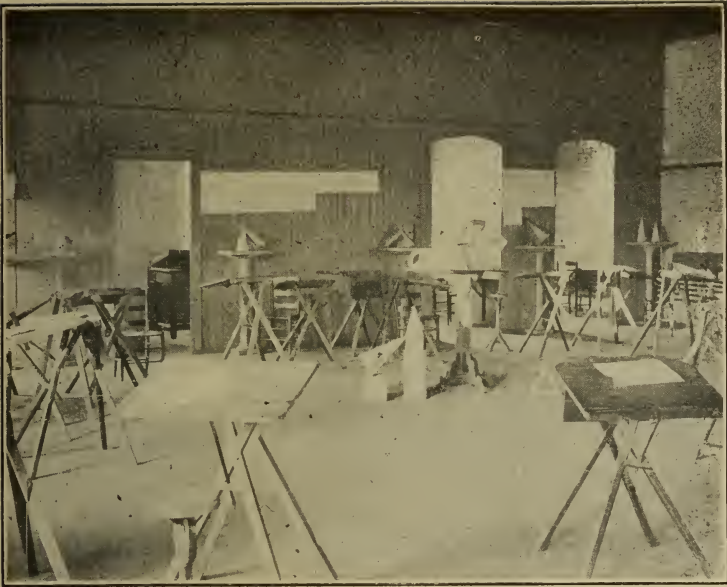
Lectures and exercises are given two one-hour periods during the first term of the Freshman year.

VI.—DESCRIPTIVE GEOMETRY.

This subject is taught in the class room and is followed in the drafting room by problems and practical applications. One lecture and one two-hour period during the third term of Junior year.

VII.—TOOLS AND MACHINES.

Lectures are given to the student upon the care of tools and the operation of the principal machines used in various shops. Two one-hour lectures during the first and second terms of the Sophomore year.



Free Hand Drawing.



Specimens of Wood Work.

VIII.—MATERIALS.

The student is given the principal materials that are used in building construction and in machine construction, their uses, strength and general characteristics are discussed. The course is given in three one-hour periods during the first and second terms.

IX.—STRENGTH OF MATERIALS.

A review of the principles of mechanics applicable to the strength of materials at rupture, the methods of manufacture, the methods of testing. The mechanical theory of the subject is mainly discussed. Two one-hour periods during first term of Senior year.

X.—GRAPHIC STATICS.

Determination of stresses in framed structures by graphical methods. One two-hour period of lecture and draughting practice during the first term of the Senior year.

XI.—HYDRAULICS.

Hydrostatics and the flow of water over weirs, and through orifices, pipes, and open channels. Two one-hour periods during second term of Senior year.

XII.—APPLIED THERMODYNAMICS.

This course covers those principles of the mechanical theory of heat which are essential to the study of the various kinds of heat engines. Two one-hour periods during the third term of the Senior year.

XIII.—SURVEYING.

The work of the class room covers the description of the use of the chain or tape in measuring lines areas, the use of the compass, and the use and adjustment of the engineer's transit and wye level. The class is divided into field parties and practice is given in distances, land surveying with the tape alone and also with the compass or transit. The student is required to make a topographi-

cal drawing of some plot from notes obtained with the surveying instruments. One two-hour period during third term of the Senior year.

XIV.—METALLURGY.

The principles of Chemistry are chiefly applied to the composition and methods of analysis of the materials of the greatest importance in engineering. One two-hour period during the entire Sophomore year.

XV.—INDUSTRIAL CHEMISTRY.—(Organic.)

Raw materials and finished products are analyzed. Especial attention is given to the utilization of manufacturing by products. One lecture per week during the Junior year, and two hours per week during the second and third terms of the Senior year.

XVI.—ENGINEERING CHEMISTRY.

The principle subjects dealt with in the lecture and laboratory are: Boiler feed, analysis of various fuels, the manufacture and analysis of fuel gases, the engineering tests of lubricating oils. Two two-hour periods of laboratory and lectures during first two terms of Senior year.

XVII.—STEAM BOILERS.

A descriptive study of the various types and makes of steam generators in common use and the adaptability of each type to special localities; combustion of fuels, boiler settings, boiler accessories, legal requirements. The study covers the entire Sophomore year with two one-hour periods.

XVIII.—BOILER-FIRING PRACTICE.

During the second term of the Sophomore year each student is required to work two hours per week firing the boilers of the heating plant.

XIX.—STEAM ENGINES.

The following subjects are treated: Types—simple compound and triple expansion, automatic, rotary and tur-



Blackemith Shop.



Power Wood Shop.

bines; care and management; indicators, indicated and brake horse power. Steam pumps are also considered in connection with steam engines. Two-hour period throughout the Junior year.

XX.—STEAM ENGINE DESIGN.

During the first term of the Senior year the student is required to design a small steam engine of not less than 25 h. p.

XXI.—CENTRAL STATION PRACTICE.

The student is required to run the power plant of the college two hours per week during the second term of the Senior year.

XXII.—POWER PLANT INSPECTION.

Inspection visits are made to the various power plants of the immediate vicinity with the view of pointing out to the student the most important features. Notes are taken by the student and a paper is written of the visit and presented to the instructor. One two-hour period during the second term of the Senior year.

XXIII.—POWER PLANT DESIGN.

During the third term of the Senior year the student makes a complete design of a power plant, showing position of engines, boiler, pumps, and the most important features. One two-hour period.

XXIV.—ELECTRICITY.

This subject is begun in the Sophomore year with lectures and includes the practical application of electricity for power, and lights. During the first and second term of the Junior year the student does laboratory work, which is at first elementary in character, with a view of initiating the student into the methods of connecting circuits, the making of measurements and the use of common apparatus and instruments. During the first and second terms of the Senior year the student is taught the care, management and test for the various electrical machines used.

XXV.—ELECTRIC WIRING.

This subject is considered with the view of familiarizing the student with the rules of the National Board of Fire Underwriters for the installation of electric wires in buildings. Two one-hour periods during the third term of the Sophomore year.

XXVI.—HEATING AND VENTILATING.

The course comprises lectures upon the various methods of heating and ventilating buildings. The systems of heating are developed from the fireplace to the most modern systems of the day. In connection with the course the student may take practical work in steam-fitting and tin work adapted to furnaces and stoves. Three one-hour periods during the first and second terms.

XXVII.—PLUMBING.

In this course instruction is given in the methods of disposing of house waste and storm water, the proper size of house connections, the grades, the necessity of ventilation, the arrangement of plumbing fixtures, and the drainage of foundation and subsoil. Two one-hour lectures during the third term of the Junior year.

XXVIII.—ELECTRICAL ENGINEERING.

The instruction covers the installation, operation and care of electrical machinery. One Laboratory practice during the first and 2nd term of the Senior year.

XXIX.—BUSINESS LAW.

Lectures are given to the student which are intended to cover the laws governing ordinary business transactions. The following subjects are treated: Contracts, Sales, Negotiable Instruments, Real Estate, Partnership, Corporations. (One lecture per week during first term of Senior year.)

XXX.—THESIS.

The student is required to do some original work along some line approved by the Head of the Department and submit the same before receiving his degree.

ARCHITECTURE.

I.—HISTORY OF ARCHITECTURE.

The evolution of the Art of Building is considered and the artistic achievement—planning, decoration of each of the periods is studied with reference to its structural methods, materials, and conditions. (One lecture per week during the first two terms.)

II.—ELEMENTS OF ARCHITECTURE. AND ARCHITECTURAL DRAWING.

The student is given the classical orders to draw out in order to accustom his eye and mind to good architectural proportions. Great stress is laid on getting the student to the stage where he can draw well, be neat and exact in pencil, pen, and wash drawings. (Ten hours during the second term and twelve hours during the third term of the Senior year.)

III.—ARCHITECTURAL DRAWING.

The problems of this year are given to teach the student to think and reason correctly. In the Senior year the problems become more extensive. The student is made acquainted with the principles underlying the design of different kinds of buildings and the various requirements for such design. (The work covers the Junior and Senior years.)

IV.—PHOTOGRAPHY.

This work consists of practical amateur work in handling the camera, developing dry plates, blue printing and silver printing, and mounting of prints. The course is not intended to produce photographers, but is an adjunct to the Architectural work. (Two hours during first term of Junior year.)

V.—ESTIMATES.

The student is taught to estimate the cost of the different buildings that he designs and various problems are given him in order to familiarize him with usual methods of making estimates. (Two one-hour periods during the first and second terms of Senior year.)

VI.—SPECIFICATIONS.

The student is taught the requirements of a good specification. What should be included and what omitted. The relation of specification to working drawings. (One hour per week during the first term of Senior year.)

VII.—LANDSCAPE DESIGN.

This work consists of properly laying off the grounds around the buildings designed, including walks, trees and flowers and shrubbery. (Two hours per week during the second term of Senior year.)

VIII.—BUILDING SUPERINTENDENCE.

This subject is brought to the student because of its importance to the architect. The following subjects are treated. Selection of site, systematic plan of supervision, rejection of materials, space for materials, and the relation of the superintendent to the owner. (Two hours per week during second term of Junior year.)

SHOP WORK.

CARPENTRY.

The course in carpentry is designed to cover four years. Each student is given instruction in house carpentry, shop carpentry, cabinet making, wood carving, wood turning and practice on wood-working machinery. During the first year the student is given exercises in planing, squaring, gauging, sawing, laying off lines and dimensions. The different joints of carpentry are made. In the second year, the student makes practical applications of the work of first year by making articles of furniture

and of buildings.

During the third year practice on wood-working machinery, wood turning and wood carving are studied.

During the fourth year the student takes advanced lathe work, pattern work, cabinet work, veneering and polishing and construction work in carpentry.

FORGING.

The full course covers four years. The student who takes the complete course does more of the regular exercises in upsetting, strapping, bending, twisting, cutting, punching and welding, annealing, tempering and case hardening than is required of the student who is pursuing the course in order to enter the machine shop for trade work. The trade student takes a course in horse shoeing and wheelwrighting before finishing the regular course.

MACHINIST TRADE.

The student who takes this course must take one year course in forging before he can enter. He shall bring to the shop a set of lathe tools, made by him in the forge shop. The student is taught the use of stock and die and the pipe machine in cutting pipe threads, chipping and filing, making, hardening, tempering and grinding of cutters, drills and tools, babbiting and brazing. He is given thorough instruction in the operation of the drilling machine, engine lathe, and the shaper. Before completing the trade each student is required to construct some machine or apparatus, as dynamo, gas engine, small milling machinery, lathe, steam engine or electrical measuring instrument. (The course covers three years.)

TIN SMITHING.

The student who takes sheet metal work must do considerable work in draughting patterns. The first year is devoted largely to familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plain soldering. During the second



Machine Shop.



Tin Shop.

year sheet iron work is introduced, also riveting, bending, guttering, making cans, cups, etc., from patterns.

During the third year the student is taught how to draft patterns and work from his own designs. He does work during the year in the following: Brazing cornice, stamping, joining cast iron, wrought iron, brass and lead pipes, furnace work, ornamental tin and exhibition work. (The course covers three years.)

NIGHT SCHOOL COURSE.

The department will conduct a trade course for those students who come especially to learn trades. During the day the student will be given work in his trade, and at night he will be required to take academic work. Thirty hours per week will be required for trade work, and ten hours per week to Academic studies. The student will be paid for all productive work at the usual rate of from $7\frac{1}{2}$ to $12\frac{1}{2}$ cents per hour. A certificate will be granted upon the completion of a trade. From three to four years required.

SPECIAL COURSES.

Special Courses are offered by the department in electrical wiring, boiler firing and engine practice, mechanical draughting, house planning or elementary architectural draughting and wood turning.

BRICKLAYING AND PLASTERING.

Students who take in this trade will be required to work at least ten hours per week. Those who expect or desire to take the full course in Masonry will be required to serve six hours each day in the shop. They will be given two hours, two days each week for drawing, which will bear as much as possible along the line of this trade.

This course will deal largely with plain house-building, walls, arches, chimneys, culverts, wells, etc.

The students will be taught the proper use of ordinary bricklayers' tools, the bond rod, laying headers, stretchers, walls with footings and projections, arches, circular, flat, elliptical and Gothic; setting door and window frames, bedding sills, lintels, plates, etc.; building chimneys and stacks, square, round and octagon; setting grates, heaters, and boilers, cabinet mantles, bathroom fixtures, tiling and running plain pressed brick fronts.

Plastering: The course in plastering is intended to be as nearly practical as possible; the class will be expected to keep in repair the dormitories and buildings of the College. Instruction will be given in the proper use of plasterers' tools, selection of sand, lime and hair; lathing and plastering walls and ceilings, plastering to grounds and to finish, sand, and float finish, skimming, white coating and kalsomining.

Whenever it is possible instruction will be given in cement work, laying granolithic pavements, steps, curbings, coves, hearths, etc.

Lectures will be given bearing on each of the subjects mentioned, estimating, building superintendence, and problems in practical measurements, will be given.

ARITHMETIC.

FIRST YEAR—FALL TERM.

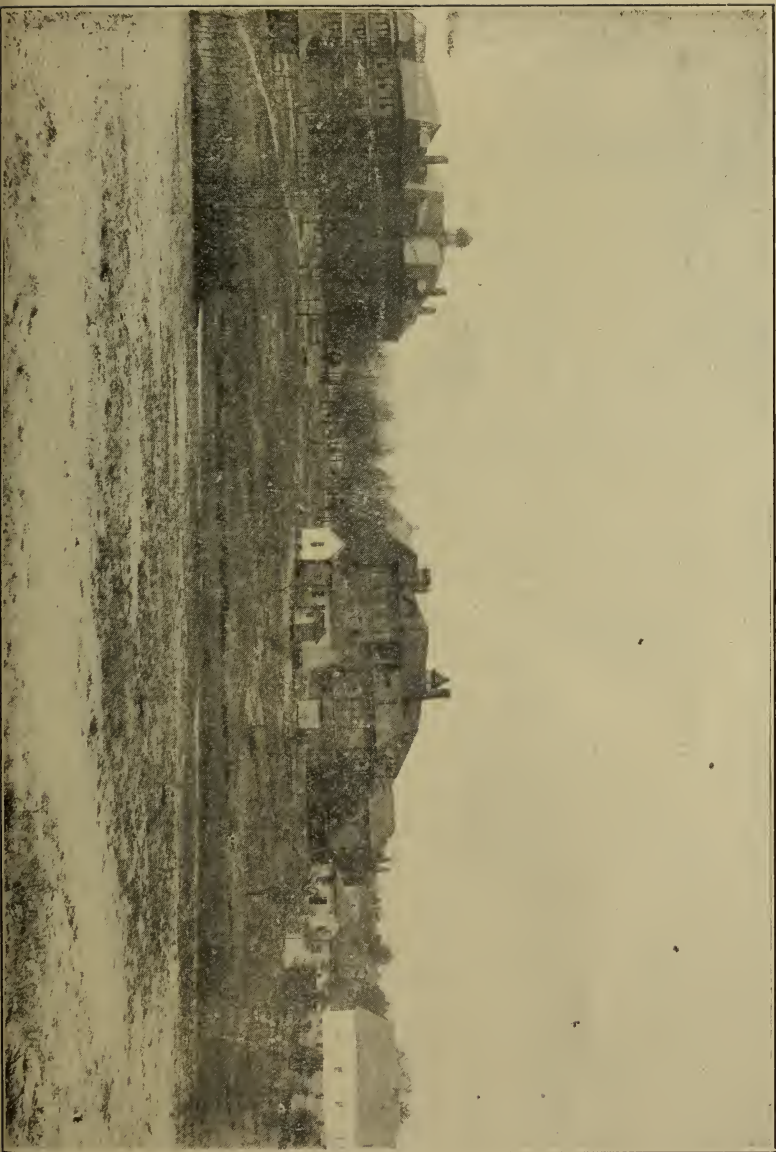
- I.—Six hours. Percentage, Interest, Stocks and Bonds. Proportioned parts, Partnership.

WINTER TERM.

- II.—Six hours. Powers and Roots, Mensuration, Compound Proportion, Exchange, Measures of Temperature, Specific Gravity.

SPRING TERM.

- III.—Six hours. General review of Courses I. and II. Introduction to Algebra.



APPLIED MATHEMATICS.

SECOND YEAR.

I.—ALGEBRA. Six hours.

This course comprises the elements of Algebra through quadratics. All unnecessary matter is left out, and the application of each principle is pointed out. The first term takes the work to fractions. Text: Milne's Elements.

II.—ALGEBRA. Six hours. Text as above.

Beginning at fractions and completing simultaneous equations.

III.—ALGEBRA.

Beginning at involution and completing quadratic equations.

FRESHMAN YEAR.

All students take the same course during this year.

	Fall	Winter	Spring
English	5	5	5
Arithmetic	5	5	
Algebra			5
Trade Work	6	6	6
Drawing, Freehand	4	4	4
Materials of Construction		2	2
Chemistry	3	3	3
Elective Subjects	7	7	7

TRADE COURSE—DEGREE BACHELOR OF SCIENCE.

SOPHOMORE.

	Fall	Winter	Spring
English	5	5	5
Algebra	5	5	5
Trade	10	10	10
Drawing (Mechanical)	4	4	4

	Fall	Winter	Spring
Drawing (Perspective)	2		
Materials ..	3	3	
Tools and Machines (Elect.)	1	1	
Boiler Firing (Elect.)	2		
Metallurgy (Elective)	2	2	2
Bookkeeping	2	2	3

JUNIOR.

English ..	5	5	5
Geometry ...	5	5	5
Physics	5	5	5
Drawing (Mech. or Ar.)	4	4	
Descriptive Geometry			3
Heating and Ventlg. (El.)	3	1	
Plumbing (Elective)			2
Electric Wiring (El)			2
Trade ..	8	8	8
Bldg. Superintendence		2	

SENIOR.

English	5	5	5
Trigonometry	5	5	5
Drawing (Arch. or Mach.)	2	4	4
Trade	10	10	
Thesis			10
Statics	2		
Strength of Materials	2		
Surveying (Elective)			2
Specification	1		
Building Law	1		
Estimates	2	2	
Civics			3
Inspection Visits		2	

TRADE COURSE—NIGHT SCHOOL.

Trade	30	30	30
Night School Subjs.	10	10	10

ENGINEERING COURSE—DEGREE B. S. OF ENGINEERING.

SOPHOMORE.

	Fall	Winter	Spring
English	5	5	5
Algebra	5	5	5
Drawing (Mechanical)	4	4	4
Drawing (Perspective)	2		
Carpentry and Turning	6	4	
Pattern Making			4
Forging..		2	6
Tools and Machines	1	1	
Steam Boilers	2	2	2
Boiler Firing Practice		2	
Metallurgy	2	2	2
Materials	3	3	
Bookkeeping	2	2	3

JUNIOR.

English ..	5	5	5
Geometry	5	5	5
Physics.. ..	5	5	5
Machine Drawing ..	4	3	2
Descriptive Geometry			3
Heating and Ventilating	3	3	
Plumbing			2
Industrial Chemistry	1	3	3
Machine Shop	2	2	2
Electric Wiring			2
Electricity (Lectures)	1		
Applied Electricity	2	2	
Steam Engines and Pumps	2	2	2

SENIOR.

English ..	5	5	5
Trigonometry	5	5	5
Machine Design	2	4	
Strength of Materials	2		
Hydraulics		2	

	Fall	Winter	Spring
Surveying			2
Engineering Chemistry	4	4	
Applied Thermo Dynamics			2
Statics ..	2		
Civics			3
Central Station Practice		2	
Power Plant Inspection		2	
Power Plant Design			2
Business Law	1		
Machine Shop Work	4	4	
Steam Engines Design	2		
Electrical Engineering	3	2	
Thesis ..			10

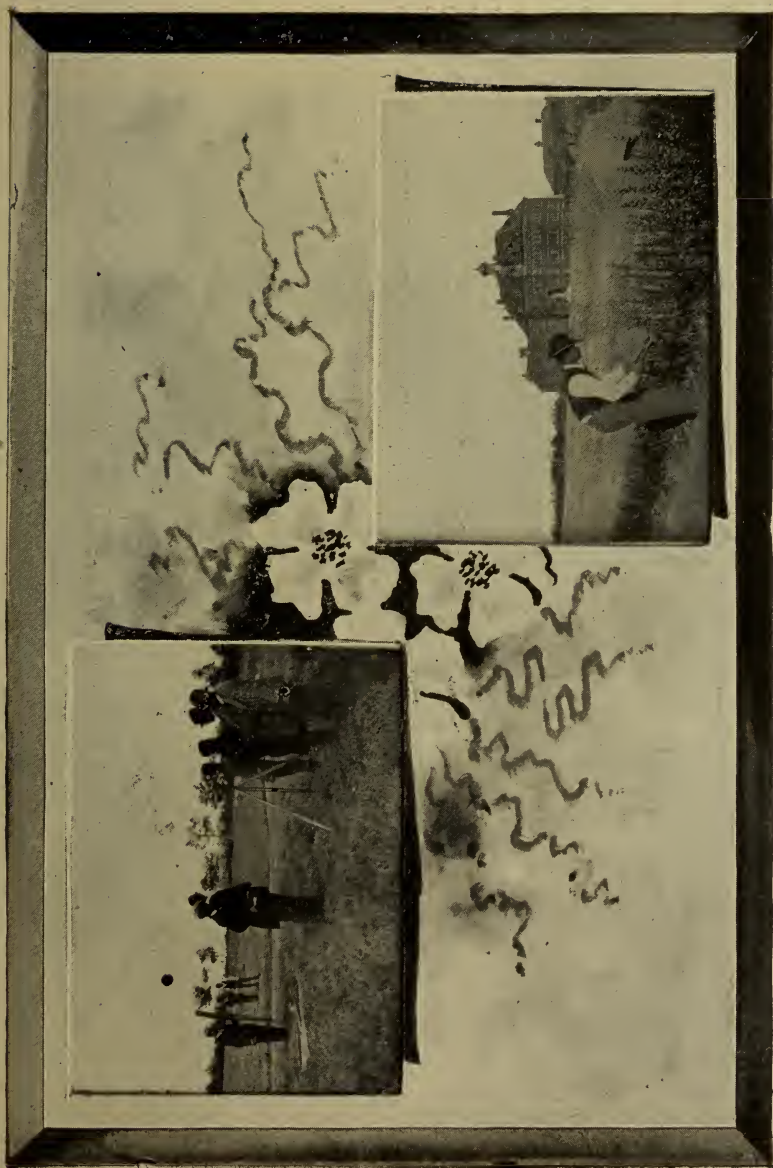
ARCHITECTURE—B. S. OF ARCHITECTURE.

SOPHOMORE.

Drawing (Mechanical)	8		
Drawing (Perspective)	2		
English	5	5	5
Algebra	5	5	5
Carpentry	6	4	2
History of Architecture	1	1	
Elements of Architecture and Arch. Drawing ...		10	12
Brickmasonry ..			4
Materials ...	3	3	
Elective (Subject)		2	2
Bookkeeping		2	3

JUNIOR.

English ..	5	5	5
Geometry	5	5	5
Physics... ..	5	5	5
Heating and Ventilating	3	3	
Plumbing			2
Arch. Drawing	10	10	7



Class in Surveying.

	Fall	Winter	Spring
Electric Wiring			2
Photography	2		
Building Superintendence		2	
Descriptive Geometry			1

SENIOR.

Arch. Design	10	10	
English	5	5	5
Trigonometry ..	5	5	5
Statics	2	4	
Surveying			2
Specifications	1		
Building Laws	1		
Estimates	2	2	
Inspection Visits		2	2
Landscape Design		2	
Thesis			10
Civics			3

DAIRY DEPARTMENT.

P. E. Robinson, *Director*.*

The field of dairying offers special advantages to the colored youth. This age demands men skilled along all lines. Scientific investigations and improvements are being made in all forms of industry and in none are the improvements so marked and so much needed as in the field of dairying. The old time manner of dairying cannot keep pace with the modern methods nor can the unimproved dairyman compete with his modern brother.

The work of this department will be to thoroughly equip students in the principles of modern dairying—giving much attention to the sanitary condition of the barn, dairy and the animals; thereby leading to the production of a wholesome product. While much attention will be

* Resigned.

given toward having the students well grounded in the theoretical side, still greater attention will be exercised along the lines of practical work; for we believe it is essential to do to know what to do.

The department offers a two-year and a four-year course and a short course of six weeks will be given for those whose circumstances make it impossible to take the more extended work and yet who would be greatly benefited by taking less extended training for their life work.

EQUIPMENT.

The dairy is well equipped with apparatus, such as revolving churns, butter workers, Babcock milk testers, aerators, a cheese outfit, separators, a sterilizer for bottles, a moisture test and other scientific apparatus for the study and examination of milk. The bacteriological laboratory is being fitted out with the necessary apparatus for the thorough study of bacteria in milk.

REQUIREMENTS FOR ADMISSION.

Students entering the two and four-year courses will be required to pass the regular examination for the Freshman year as laid down elsewhere in the catalogue. All students must provide themselves with white suits. Second, third and fourth year students will be required to deposit \$1.00 per term as laboratory fee.

ANIMAL HUSBANDRY.

OUTLINE OF COURSE.

I.—BREEDS OF LIVE STOCK.

This subject covers the history, characteristics, conformation, care and management, and the typical points of the different breeds of dairy cattle. The college herd will afford an opportunity for the study of the Jersey breed and visits to the neighboring farms will be made for the purpose of the study of the various other breeds. The subject will be taught by text-book, lectures and recitations and illustrated by charts.



Exhibit at Central Carolina Fair, 1905.



Carpenter Shop.

II.—BREEDING.

This subject will cover the principles of breeding; heredity, correlation, fecundity, prepotency, inbreeding line-breeding, cross-breeding, writing of pedigrees, judging, scoring and the grading of cattle. Lectures and recitations.

III.—STOCK JUDGING.

The fundamental points of dairy cattle as to type, conformation of udders, official standards, pedigrees, dairy temperament and performance of the different breeds will be thoroughly discussed. Lectures, recitations and competitive drills will be in judging and scoring of cattle the chief method of instruction.

IV.—FEEDS AND FEEDING.

This subject covers the laws of nutrition, the character of food stuffs, the general principles and practices of feeding calculation of feeding standards, and compounding of rations with regard to the production of milk. Students will be required to make experiments in feeding different rations, noting their effect on the production of milk. Lectures and recitations.

VETERINARY SCIENCE.

V.—ANATOMY.

This subject will be taught by text-book and lectures illustrated by charts with a view to giving the student a fair knowledge of the anatomical structure of animals. Wherever opportunity affords, students will be required to dissect and mount the skeleton of the horse or cow. Special attention will be to the obstetrics of the horse and cow, common diseases of live stock, methods of treatment and prevention, and the application of the tuberculin test.

DAIRYING.

VI.—MILK AND ITS PRODUCTS.

The course treats of the secretion and composition of milk; the care and handling of milk, cream and butter of the farm; the care and use of separators; the principles

and application of the Babcock test for milk and cream, butter and cheese; the use of the lactometer and the calibration of glassware. The subject will be taught by lectures, text-book, recitations and laboratory work.

VII.—BUTTER MAKING.

The essential points in the process of manufacture such as the preparation of starters, cream ripening, applying the acid test, churning, washing, salting, working, printing, wrapping, and marketing; scoring, calculation of over-run and the per cent. of moisture. Subject taught by lectures, recitations and laboratory work.

VIII.—CHEESE MAKING.

This course deals with the care and handling of milk for cheese making; the application of the rennett and curd test and the manufacture of hard and soft cheeses. Lectures and laboratory work.

IX.—DIETETICS AND HYGEINE OF MILK.

This course treats of the feeding value of milk, the city milk supply, sanitary milk, stanardized, guaranteed, certified and clarified milk, standardizing of milk and cream and the modification of milk for infants and invalids. Lectures and laboratory work.

X.—BACTERIOLOGY.

This course deals with bacteria and their relation to milk; the ways which they gain access to the milking pails; their harmful and wholesome effects; the various types commonly found in milk; manner of reproduction, methods of control making of cultures and qualitative and quantitative analysis of milk; determinations of the affect of sterilizing and pasteurizing on the quality of milk. The subject will be taught by text-book and the laboratory work will be of such a nature as to give the student a thorough drill in the preparations of cultures, the growing of germs, and the testing of milk for disease germs.

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SECOND YEAR.

THIRD YEAR.

English	5	5	5
Math.	5	5	5
Feeds & Feeding	5	5	5
Vet. Sci.	3	3	3
Butter-making	3	3	3
Mechanism	5		
Cheese-making		3	3
Bookkeeping	2		
Milk Chem.		5	5
Creamery Accounts			

FOURTH YEAR.

	Fall Term.	Winter Term.	Spring Term.
English	5	5	5
Cheese-making	3		
Milk Inspection		5	5
Bacteriology	5	5	5
Vet. Med.	5	5	5
Dietetics of Milk	5	5	5
Dairy Management	5		
Thesis			

TWO YEAR COURSE.

FIRST YEAR.

English	5	5	5
Arithmetic	5	5	5
Breeds of Livestock	2	2	2
Feeds and Feeding	5	5	5
Care of Live Stock	5	5	5

SECOND YEAR.

English	5	5	5
Arithmetic	5	5	5
Vet. Sci.	5	5	5
Bookkeeping	5	5	5
Dairying	5	5	5
Stock Judging	5	5	5

Students entering the Dairy Department are at liberty to pursue such subjects in any other department they may choose provided they meet the requirement of that department.



Administration Building.

North Dormitory.

South Dormitory.

Mechanical Building.

TEACHERS' TRAINING DEPARTMENT.

J. D. Chavis, *Head of Department.*

To enter this course, the applicant should have completed our Academic Course, or its equivalent elsewhere. Courses offered in our best High Schools and Academies will be accepted as equivalent. Credit will be given applicant for satisfactory experience in teaching.

(By special arrangement of the courses offered by the College, students may enter the regular Teachers' Course after completing the second year of the English Department and pursue it in connection with their Industrial Course.)

COURSE OF STUDY.

FRESHMAN.

Studies.	Hours.
English	3
Physiology and Hygiene (W)	2
Geometry (Plane)	4
Agriculture	2
Drawing	2
Manual Training	3
Botany (Spr.)	3
Music (Vocal)	2

SOPHOMORE.

English	3
Algebra (Higher)	3
Geometry (Solid)	2
History (General)	3
Music (Vocal)	1
Chemistry (F.)	4
Manual Training	3
Drawing	2
Agriculture (Industrial Trang. For Com. Schs.)	2
Biological Natnure Study (S)	2

JUNIOR.

English	2
Trigonometry (W)	4
Physics (F)	4
Psychology (F.)	3
History of Education (W)	2
Manual Training	3
Agriculture	2
The Teaching of English and Elementary Mathematics (S)	2

SENIOR.

English	2
Applied Psychology (F)	3
Ethics & Sociology (W)	4
School Management (S)	2
Teaching and Child Study (S)	2
Philosophy of Education and General Methods (S) ...	3
Bible	2
Manual Training or Agriculture	3
Practice Teaching in the Night School.	

In all literary subjects, no student will be allowed more than 20 hours a week; 15 hours a week are required.

All students required to take some industrial subject.

DESCRIPTION OF COURSE.

ENGLISH.

The course in English is designed to teach the pupil accuracy in the use of words; ease, clearness and force in expression; and the knowledge of the sentence and good composition.

The Freshman Year will begin with Rhetoric and Composition, with practical application of the principles in Themes and Exercises. A text book on the subject will be used.

The class will read and study such as the following:

Evangeline, Ivanhoe, Irving's Sketch Book. Reproductions of Short Stories will be required throughout the year.

The Sophomore Year will begin with a critical study of prose masterpieces such as: Twice Told Tales, Selections from Addison, and Emerson's Essays.

The study of Etymology and Theme writing is required throughout this course; original description of daily tasks in practical work.

In the Junior Year the class will study General English Literature, using a text book on the History of Literature, noting critically at least one work of the leading authors.

The English of the Senior Year will consist of reviews of English Classics read, and of special work in Theme writing.

GENERAL HISTORY.

I. Brief study of the Ancient People. Special Lectures on Greek and Roman History. (Soph. Fall Term.)

II. The Mediæval Nations. Special study of European and Asiatic Nations. (Soph. Winter Term.)

III. Brief History of Modern Nations. Lectures on American History. History of North Carolina. (Soph. Spring Term.)

MATHEMATICS AND SCIENCE.

Courses in Mathematics and Science are the same as outlined in the Junior and Senior Years of the Agricultural and Mechanical Departments.

PEDAGOGY.

The course in Pedagogy includes General Psychology, Psychology as it relates to Education and Child Study, History of Education, Philosophy and Meaning of Education, Methods of Teaching, School Management, Lectures on teaching the Industries in the Public Schools.

DEPARTMENT OF INDUSTRIES.

J. W. Landreth, *Head*.

This department is run primarily from a commercial point of view to accomplish a three-fold purpose, viz:

To give revenue to the college.

To give employment to needy and deserving students.

To supplement by practical work the theoretical instruction of the class room.

The department comprehends the following industries:

Broom Factory. The broom factory is equipped with all the necessary machinery for converting the broom-corn, raised on the farm, into the most useful article of the household—the broom. The college finds a ready market for the output of the factory in its immediate vicinity.

The Farm. A farm of 125 acres, is well stocked, and equipped with the most improved farm machinery and labor-saving devices. Corn, wheat and potatoes are the most important crops, while vegetables are grown to such an extent as the market demands.

A ninety-ton silo has been erected which is filled with corn silage each year which is cut in the field with a corn harvester and cut up for the silo by a St. Alban's shredder.

The Piggery. The piggery is well equipped and modern. It is stocked with pure bred and high-grade Berkshires and Poland-China hogs.

NIGHT SCHOOL.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit

will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirous that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to The President, A. & M. College, Greensboro, N. C."

NIGHT SCHOOL SCHEDULE.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	SATURDAY.
7-8.....	Arithmetic..	Arithmetic..	Arithmetic..	Arithmetic..	Arithmetic..
8-8 30..	English.....	English.....	Read& Writ	Music.....	Drawing.....
8 30-9..	Geography.	Geography.	Agriculture	Physiology	Writing.....
9-9 30..	Agr. Phy	Breeds.....	Geography.	History.....	History.....

WINTER.

7-8.....	Arithmetic..	Arithmetic..	Arithmetic..	Arithmetic..	Physiology
8-8 30..	English.....	English.....	English.....	English.....	Reading.....
8 30-9..	Geography.	Read & Wr.	Geography.	Read & Wrtg	Drawing.....
9-9 30..	Agriculture	Drawing	Agr.& Chem	Music.....	History.....

SPRING.

7-8.....	Arithmetic.	Arithmetic..	Arithmetic..	Arithmetic..	Drawing
8-8 30..	English.....	English	English	English	Read&Spell
8 30-9..	Geography.	Read & Spel	Geography..	Spelling.....	Music.....
9-9 30..	Physiology	Mat. Const.	Physiology.	Mat. Constr	English

MEDALS.

Two medals were given this year.

The Odell Medal, won by J. H. Smith, for proficiency in Agriculture.

The Hagan's Medal, won by J. H. Smith, for proficiency in English.

DISTRIBUTION OF STUDENTS,

By States and Counties of North Carolina.

COUNTY	NO.	COUNTY	NO.	COUNTY	NO.
Alamance	3	Forsyth	4	Pender	3
Anson	9	Guilford	19	Person	2
Burke	1	Green	6	Rowan	2
Beaufort	1	Gaston	1	Rockingham	1
Buncombe	1	Halifax	4	Richmond	3
Carteret	1	Iredell	1	Rutherford	3
Cumberland	5	Johson	2	Robeson	5
Chatham	4	Jones	3	Scotland	7
Catawba	3	Lenoir	1	Stokes	1
Cabarrus	1	Lincoln	2	Stanly	1
Caswell	1	New Hanover	5	Union	2
Craven	1	Nash	1	Wilson	5
Cleveland	2	Northampton	1	Wake	6
Davidson	3	Montgomery	4	Warren	3
Durham	6	Mecklenburg	14	Wayne	1
Edgecombe	3	Orange	8		
Franklin	5	Onslow	3		

North Carolina175

South Carolina 9

Virginia 5

New York 3

Pennsylvania 1

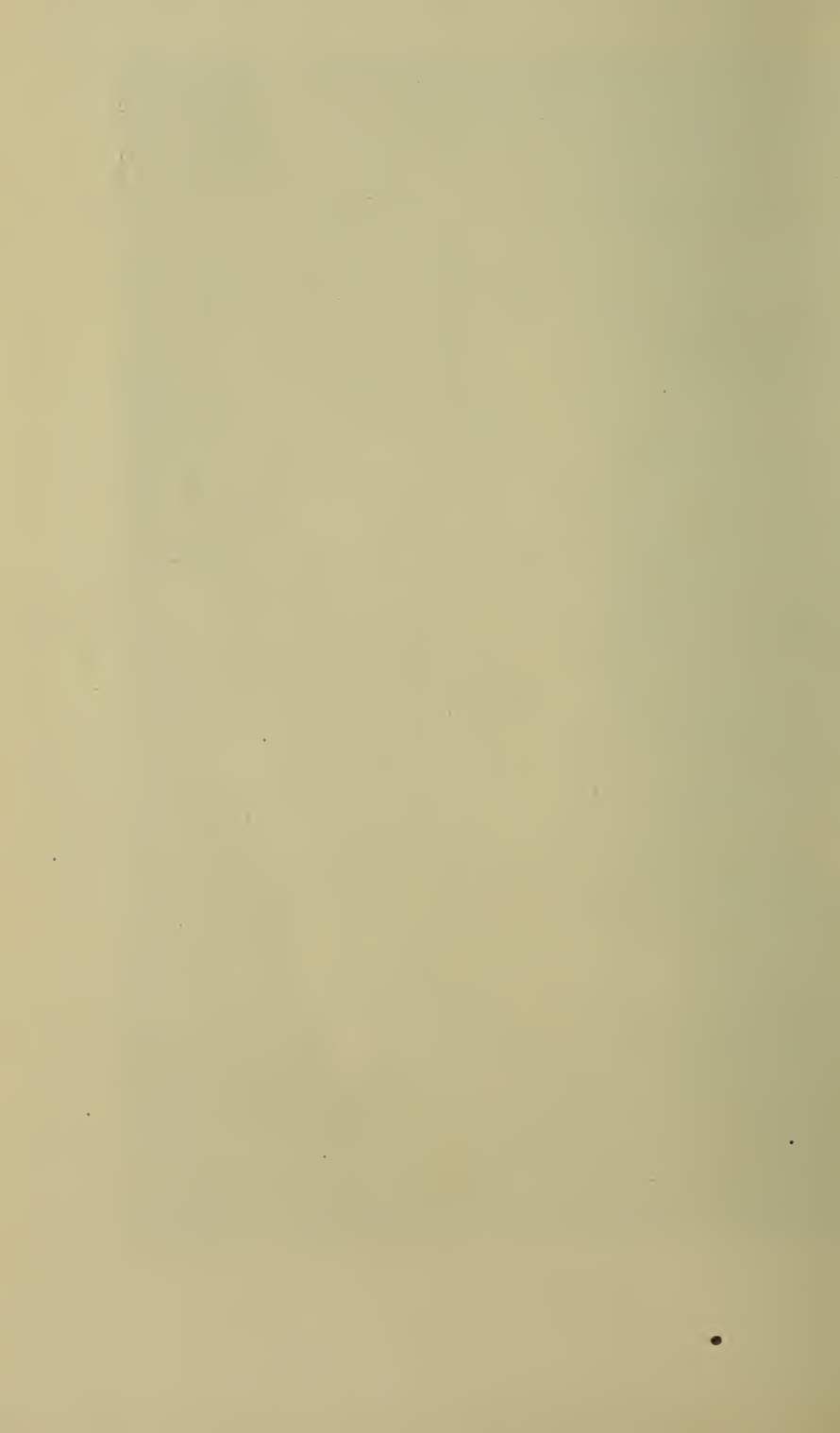
Louisiana 1

Total number of regular students194

Number of counties represented 49



A. & M. College Baseball Team.



LIST OF GRADUATES.

1899.

"No steps backwards"

- Cheek, W. T. C. Kittrell, N. C.
 Cunningham, I. S. Mahary, Knoxville, Tenn.
 Curtis, A. W. Institute, W. Va.
 Agriculturist, West Va. Col. Institute.
 Falkener, E. L. Tuskegee, Ala.
 Joyner, J. M. 1329 Poplar St., Philadelphia, Pa.
 Robinson, P. E. Greensboro, N. C.
 Director Dairy Department.
 *Watson, A. Greensboro, N. C.

1900.

"By our efforts we rise."

- *Best, C. H. Grove Hill, N. C.
 Green, J. H. Wilmington, N. C.
 Principal Welleston Graded School.
 Moore, R. D. Wilmington, N. C.
 Postal Clerk.
 Neal, J. P. Winston-Salem, N. C.
 Plummer, E. S. Brooklyn, N. Y.
 Mechanic.
 *Quick, J. R.
 Robinson, Chas. D. Tuskegee, Ala.

1901.

"Fortune favors the brave."

- Colson, E. F. Tuskegee, Ala.
 Edwards, G. A. Raleigh, N. C.
 Teacher, Manual Training, Shaw University.
 Grimes, Frances E. Asheville, N. C.

1902.

"After the contest, victory"

- Bullock, Mrs. H. A. Greensboro, N. C.
 Housekeeper.
 Henderson, A. P. Chicago
 Hepler, T. H. Station 3, Newport News, Va.
 Dairyman.
 Holcombe, A. J. P. Raleigh, N. C.
 Garrett, Mrs. F. E. Greensboro, N. C.
 Teacher,

*—Deceased.

- Mebane, A. L. Tuskegee Inst., Ala.
Landscape Gardener.
Quinn, Wm. Raleigh, N. C.
Mechanic, D. & B. Institute.
White, W. A. Hillsboro, N. C.

1903.

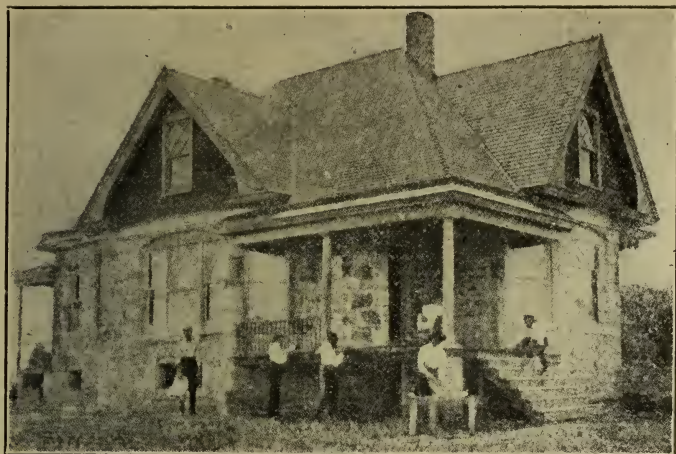
"More beyond"

- Alexander, W. G., Engineer 422 Elton St., Brooklyn, N. Y.
Amey, Chas. G. Greensboro, N. C.
Instr. Blacksmithing, A. & M. College.
Burnett, A. C. High Point, N. C.
Agriculturalist, High Point N. & I. School.
Forney, H. G. Enfield, N. C.
Agriculturist, J. K. Brick School.
Haywood, Burke Raleigh, N. C.
Mechanic.
Holmes, J. W. Raleigh, N. C.
Architect, St. Augustine School.
Hunter, C. C. West Raleigh, N. C.
Jefferson, C. B. Warrenton, N. C.
McLendon, J. R. Topeka, Kansas
Mechanic, N. & I. School, Topeka, Kansas.
Robinson, R. R. Tuskegee, Ala.
Robinson, W. F. Greensboro, N. C.
Florist, A. & M. College.
Yores, Edward 824 N. 13th St., Philadelphia, Pa.

1904.

"Through the dust to the stars."

- Chance, W. C. Washington, D. C.
Edward, W. T. (Siler City, N. C.)
607 Lincoln St., Wilmington, Del.
Greenlee, Percy C. 111 Foot St., New Haven, Conn.
Jones, L. A. Rocky Point, N. C.
Oldham, A. A. Greensboro, N. C.
Architect.
Ramseur, L. L. (Croom, Md.) Newton, N. C.
Teacher.
*Reaves, W. V. Glendon, N. C.



Principal's House N. & I. School, Topeka, Kansas, Built by J. B. McLendon, of the Class of 1903.



Tupper Memorial Building, Shaw University, Designed and Being Constructed Under the Supervision of G. A. Edwards, of Class of 1901.

1905.

"Thus ends our first lesson"

Hooper, L. B.	Central Mech. Wks., Keystone, West Va.
Johnson, J. I.	Greensboro, N. C. Dairyman.
Lamb, W. M.	Box 1, Station 3, Newport News, Va. Dairyman.
Richie, E. W.	25 Wolwick St., Spartanburg, S. C. (Howard University)
Turner, R. R.	Raleigh, N. C. Tinner.
Watson, P. P.	Topeka, Kansas N. & I. School.

Specials.

Jones, G. W.	Greensboro, N. C. Carpenter.
Prather, E. A.	Hayti St., Raleigh, N. C.

1906.

"Our Aim Victory"

Ford, I. R. (Mech.)	Manufacturer.....Greensboro, N. C.
Greenlee, N. B. (Agr.)Washington, D. C.
Hawkins, J. A. (Mech.)Fayetteville, N. C.
Johnson, W. T. (Agr.)	Dairyman.....Greensboro, N. C.
McRae, S. D. (Agr.)Thomasville, N. C.
Rand, John Milton, (Agr)	529 Spruce St. N. W. Washington, D. C.
Stewart Needham, (Agr.)	dairyman,..... 520 W. Market St., Greensboro, N. C.

Special, With Short Course Certificates.

Baldwin, M. L., Rev.	Greensboro, N. C.
Lee, Jas. A.	Thomasville, N. C.
Faduma Arisatuke	Troy, N. C. Troy Academy (prin.)

1907

"Climb tho' the rock be rugged."

Caesar, Robert (Agr)	Mount Airy, N. C.
Carter, O. H. (Agr)	Fayetteville, N. C.
Donnell, Clyde (Agr) (Washington, D. C.)....	Greensboro, N. C.
Davis, Chas. G. (Mech.)	(Sedalia, N. C.) Director Industrial Instruction, Palmer Institute.
Keck, William (Agr Teach. Pennington, N. C.)	Greensboro, N. C.
Rivera, T. A. (Agr.)	Durham, N. C.

Scott, Chas. A., (Agr.)	Cambria, Va.
Head. Agr'cultural Dept. Christianburg Institute.	
Smith, Edward (Mech.)	Raleigh, N. C.
Truman, J. C. (Mech.)	Durham, N. C.
Williams, M. W. (Agr.) (Arelie)	Halifax, N. C.

Special

*Leach, Thomas	Pittsboro, N. C.
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GRADUATES OF THE PREPARATORY DEPARTMENT.

Class of 1900.

Alston, Sarah V. (Miss)	Raleigh, N. C.
Carter, Alma J. (Miss)	Reidsville, N. C.

Teacher.

Colley, J. C.	Durham, N. C.
Cotton, Lillian (Miss)	Chester, S. C.
*Davis, L. E.	Wilmington, N. C.
Davis, Mary O. (Miss)	Hillsdale, N. C.
Davis, R. T.	Wilmington, N. C.
*Dudley, S. Inex (Miss)	Greensboro, N. C.
Dunham, P. Wm.	Euloria, S. C.
Farrington, Bertha (Miss)	Greensboro, N. C.
Hooper, T. H.	Winston, N. C.
Jeffreys, Annie F. (Miss)	Petersburg, Va.
Jones, Estella D. (Miss)	Chapel Hill, N. C.
McKenzie, Sarah P. (Miss)	Greensboro, N. C.

Teacher.

Pritchett, Nannie L. (Miss)	Greensboro, N. C.
*Quick, Knox S.	Laurinburg, N. C.
Richardson, M. L. (Miss)	Wilmington, N. C.
Simmons, Victor W.	Statesville, N. C.
Strong, Andrew J.	Norfolk, Va.
Willis, Josie H. (Miss)	Wilm'ngton, N. C.
Wilson, Lillie B. (Miss)	Hillsboro, N. C.
Witherspoon, Annie F. (Miss)	Greenville, N. C.
Wooten, David	Princeville, N. C.
Wright, Annie C.	Danville, Va.

Class of 1901.

Gwyn, Cecil B. (Miss)	Greensboro, N. C.
*Jones, Georgia (Miss)	Raleigh, N. C.
Jackson, N. E.	Carthage, N. C.
Logan, Erkwood	Gale, N. C.
Lipscombe, Hattie B. (Miss)	Newport News, Va.
Mapp, Sadie (Miss)	Philadelphia, Pa.

*—Deceased.



Class of 1907.

Palmer, Dinah (Miss).....	Church Hill, N. C.
Reaves, W. V.	Greensboro, N. C.
Rankin, A. E.	Greensboro, N. C.
Reynolds, Mattie (Miss).....	Waynesville, N. C.
Watson, Della A. (Miss)	Grove Hill, N. C.

N. B.—In order that this list may be kept accurately, graduates are requested to inform the President of any change in address, vocation, etc.

SCHOLARSHIPS.

A. M. Scales Scholarship of \$25 will be awarded at the close of the Fall Term to the student in the Junior class who has the best record for the first and second year classes.

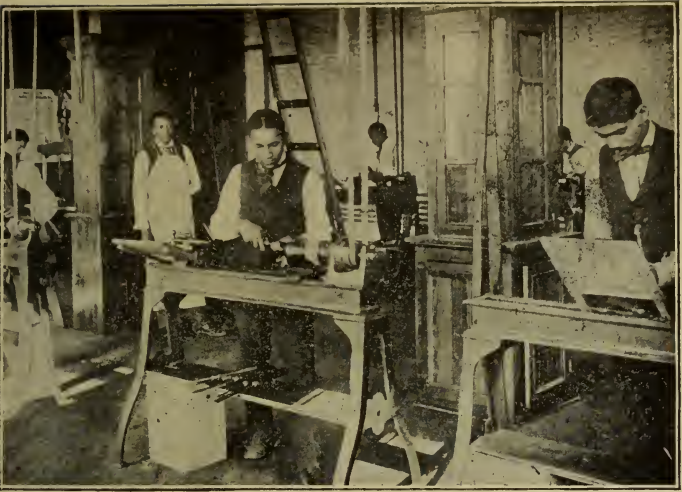
The Alumni Scholarship of \$25 will be awarded at the close of the Fall term to the student in the Senior class who has the best record for scholarship covering the period of the first, second and third year classes.



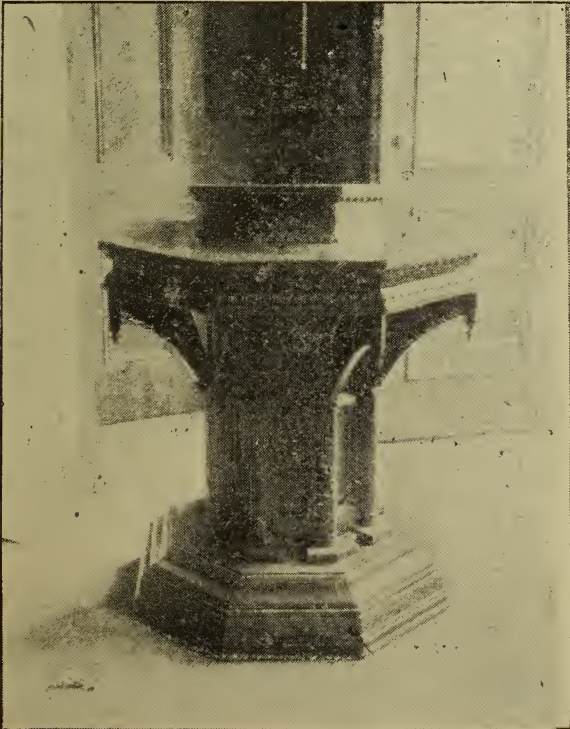
House Designed by A. A. Oldham, Class of 1904.

STUDENTS IN PREPARATORY CLASS.

Anderson, W. T.	Virginia
Avery, J. M.	Burke County
Atwater, Cleveland	Orange County
Blount, Archie	Beaufort County
Bost, Kedron E.	Davidson County
Brooks, S. T.	Guilford County
Brooks, Samuel L.	Franklin County
Brown, James R.	Pennsylvania
Brown, Samuel F.	New Hanover County
Brown, David	Onslow County
Christian, Charles	Montgomery County
Christian, Lewis	Montgomery County
Cele, Charles	Orange County
Coleson, J. A.	Anson County
Collins, T. B.	New Hanover County
Comer, John	Halifax County
Durham, Geo. R.	Durham County
DeBerry, Thomas	Montgomery County
DeBerry, Wm. S.	Anson County
Evans, Allen	Scotland County
Finch, Schofield	Guilford County
Foster, W. B.	Franklin County
Fulton, Samuel H.	Stokes County
Grandy, Wm.	Johnsen County
Grier, Arthur	Mecklenburg County
Hackney, Robert	Orange County
Hooker, W. E.	Lenoir County
Holden, Percy S.	Mecklenburg County
Hooper, J. M.	Rockingham County
Hussey, David	Jones County
Hussey, Wm. C.	Jones County
Kinsey, August	Jones County
Irvin, E. G.	Mecklenburg County
Jeffries, A. V.	Alamance County
Johnson, Seward	Lincoln County
Jordan, J. A.	Guilford County
Lampley, W. L.	Scotland County
Leak, H. C.	Richmond County
Ledbetter, P. H.	Montgomery County
Maloy, Howard	S. Carolina
Mills, Chester	Rutherford County
Millings, John H., Jr.	Mecklenburg County
Miller, Jesse T.	Rutherford County



Wood Turning.



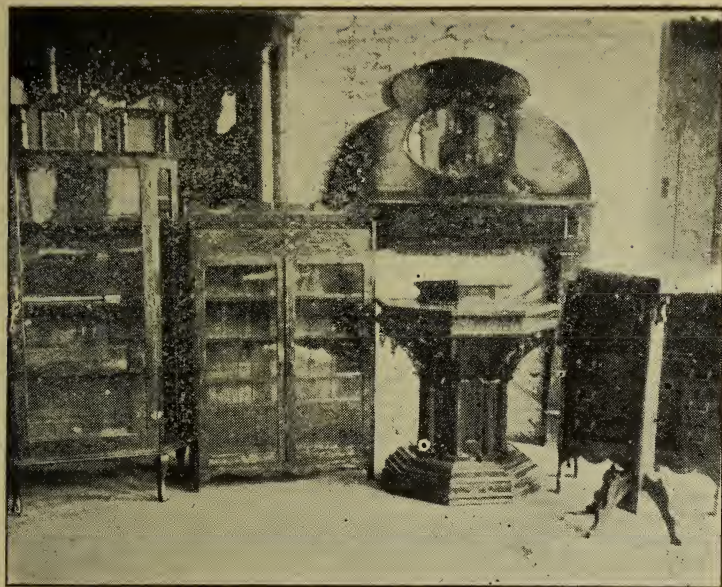
Pulpit Made in Carpenter Shop for Jamestown Exposition.

Mitchell, Robah	Forsyth County
McEachin, John W.	Robeson County
McConnell, Willie	Guilford County
McCoy, Ernest	Robeson County
McLaurin, A. F.	Scotland County
Parker, H. L.	Carteret County
Parker, Sidney	Mecklenburg County
Pegues, J. K.	Scotland County
Patrick, M. M.	S. Carolina
Paylor, J. G. C.	Alamance County
Perry, J. H.	Cumberland County
Perry, Ivon	Nash County
Pittman, L. E.	Halifax County
Poe, John	Scotland County
Pope, J. I.	Franklin County
Posey, J. J.	S. Carolina
Powell, Mack	Mecklenburg County
Powell, R. L.	Virginia
Reid, James I.	Robeson County
Richmond, Walter	Guilford County
Riddick, Walter	Virginia
Robinson, M. G.	Scotland County
Rouse, John W.	Onslow County
Scott, James	Cleveland County
Scott, Nash	Cleveland County
Shuford, J. S.	Buncombe County
Stegall, O. F.	Franklin County
Stephens, J. L.	Caswell County
Stith, Major D., Jr.,	Halifax County
Taylor, Geo. O.	Guilford County
Taylor, Hardy ..	Greene County
Tucker, M. E.	New York
Tucker, W. J.	Robeson County
Wells, P. H.	Pender County
Wharton, F. D.	Guilford County
Williams, E. D.	Greene County
Younger, Geo. L.	Greene County

FIRST YEAR CLASS.

Ancrum, Edw.	Robeson County
Arnett, W. W.	South Carolina
Banks, Arthur	Guilford County
Beaty, C. J.	Mecklenburg County
Brown, B. E.	Onslow County

Bridgers, Walter A.	Forsyth County
Bryant, Wm.	Wilson County
Burton, M. E.	Person County
Busbee, Robert L.	Greene County
Byarm, A. L.	Mecklenburg County
Byarm, L. P.	Mecklenburg County
Cochran, R.	Catawba County
Cosner, J. W.	Catawba County
Craig, W. W.	Orange County
Crump, J. L.	Davidson County
Dixon, C. V.	Alamance County
Donnell, Clifford S.	Guilford County
Ellison, Benjamin	Greene County
Emmerson, W. P.	Guilford County
Fennell, Wm.	Wilson County
Flagg, James H.	Wake County
Forney, Wm. E.	Rutherford County
Forest, Lonnie	Stanley County
Gunn, Z. G.	New York
Holt, Wm.	Orange County
Houston, J. W.	Lincoln
Kluttz, Thomas	Anson County
Little, W. H.	Union County
Lowrie, T. M.	Anson County
Mask, J. W.	Anson County
Meanes, Lawrence	Mecklenburg County
Miller, Rober	Davidson County
Moore, J. T.	Union County
Moore, Wm.	S. Carolina
Mosely, Welton	Mecklenburg County
McIver, Frank P.	Cumberland County
McNeill, Stacy V.	New Hanover County
Oldham, H. D.	Orange County
Pair, Oran	Wake County
Pearson, Walter	Pender County
Pollard, E. A.	Halifax County
Quick, W. A.	Richmond County
Rieves, C.	Guilford County
Robinson, T. E.	Scotland County
Royster, C. B.	New York
Scott, Chas. R.	Wake County
Sherrell, Geo. W.	Rowan County
Slade, S. W. R.	Wake County
Swann, John T.	Orange County
Torrence, Walter	Mecklenburg County



Exhibits of Cabinet Shop.



House Designed by A. A. Olden, Class of 1904.

Turrentine, Jesse H.	Forsyth County
Watson, A. B.	Warren County
Williams, Frederick	New Hanover County
Windley, Samuel	Craven County
Young, J. V.	Louisiana

SECOND YEAR CLASS.

Bunn, Roger E.	Wayne County
Davis, Clarence J.	Anson County
Cowan, T. W.	Iredell County
Foster, E. E.	Guilford County
Fulp, C. W.	Forsyth County
Harris, C. B.	Warren County
Ingram, W. H.	Anson County
Johnson, A. B.	Person County
Jordan, J. F.	Guilford County
Markham, W. H.	Durham County
Merrick, J. T., Jr.	Durham County
Mitchell, John W.	Cumberland County
Moore, Lonnie	Mecklenburg County
McKee, John C.	Richmond County
Lawrence, C. W.	New Hanover County
Lewis, N. R., Jr.	Johnson County
Pearson, Harry	Pender County
Sanders, M. S.	S. Carolina
Stredwick, J. W.	Wake County
Waugh, S. T.	Guilford County

THIRD YEAR CLASS.

Barnes, B. W.	Edgecombe County
Berry, Richard, Jr.	Orange County
Crawford, J. L.	Wilson County
Davis, James H.	Edgecombe County
Evans, Edw. Jr.	Cumberland County
Gill, J. C.	Cumberland County
Maberry, Samuel	Catawba County
Mask, J. D.	Anson County
Nelson, F. D.	Guilford County
Price, P. B.	Edgecombe County
Waugh, Geo.	Guilford County
Webb, H. E.	Guilford County

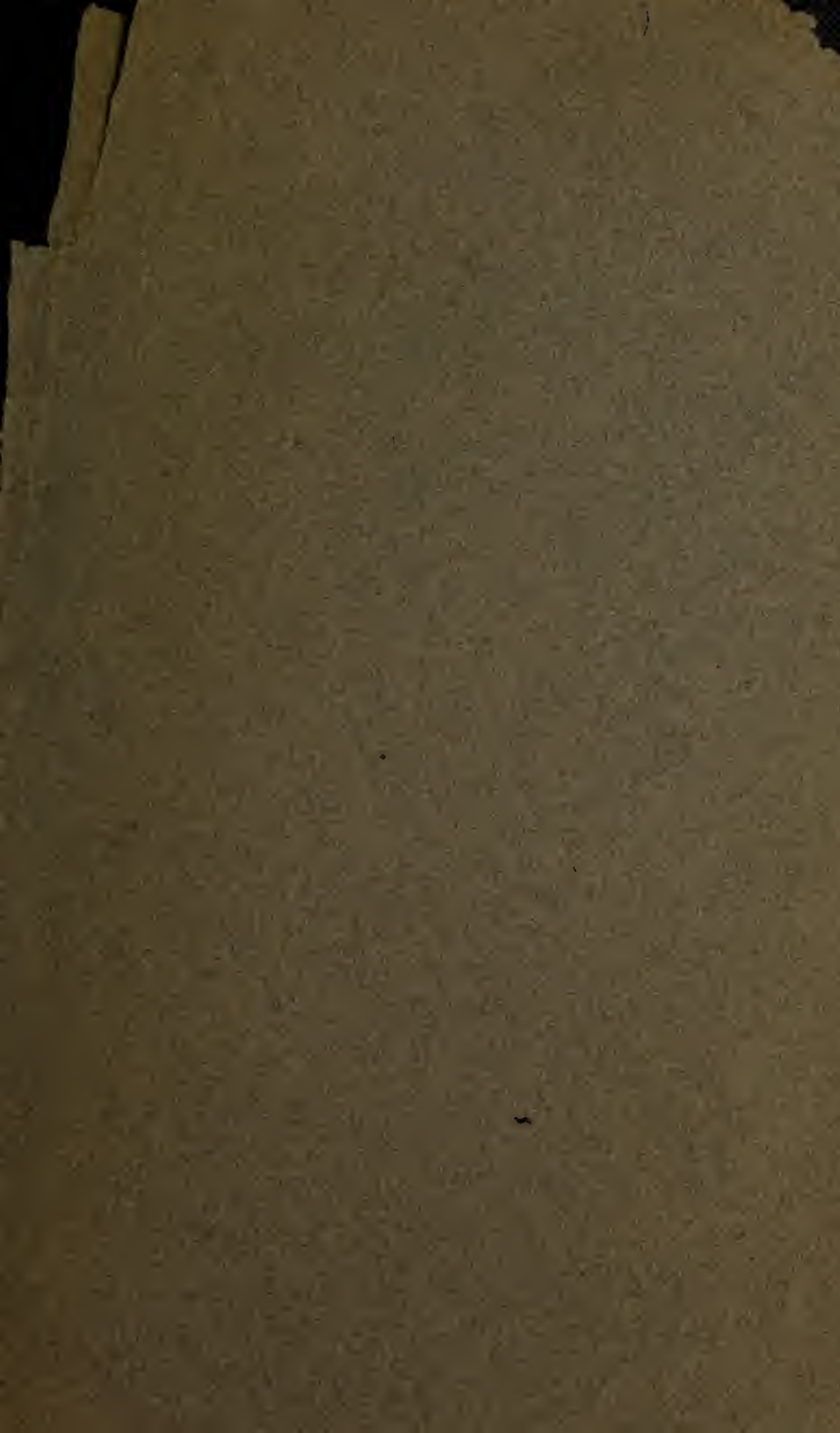
Wilkins, J. W.	Durham County
Wray, John D.	Greene County

FOURTH YEAR CLASS.

Alston, A. J.	Arcola, Warren County
Bailey, N. A.	Pittsboro, Chatham County
Baldwin Seaton	Durham, Durham County
Cotton, Samuel	Bynum, Chatham County
Darden, A. N.	Wilson, Wilson County
Flow, Baxter D.	Matthews, Mecklenburg County
Foster, Chas. L.	Greensboro, Guilford County
Harrison, M. L.	South Carolina
Harrison, R. H.	South Carolina
Holmes, W. H.	Goldston, Chatham County
Johnson, Enoch J.	Cheraw, South Carolina
Lambe, J. L.	Norfolk, Virginia
McGimpsey, J. R.	Fonta Flora, Wake County
Merrick, Edward R.	Durham, Durham County
Powell, Wylie	Wilson, Wilson County
Reid, Chas. B.	Wadesboro, Anson County
Smith, John H., Jr.	Louisburg, Franklin County
Spaulding, John W.	Greensboro, Guilford County

Special Students.

Adams, S. M.	Gaston County
Boone, R. N.	Northampton County
Demby, S. J.	Rowan County
Goldston, D. M.	Chatham County
Hairston, J. R.	Virginia
Love, M. L.	Cabarrus County





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County
County

COLLEGE SONG.

(By Mrs. Jas. B. Dudley.)

Dear A. & M., dear A. & M.,
A monument indeed
Around thy base with grateful hearts
Behold thy students kneel.
We bless the power that gave thee
birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

(Chorus.)

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year,
From Dare to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great, old commonwealth,
Proud boaster of the free,
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
Of what thy students sow.